



EC TYPE-EXAMINATION CERTIFICATE

Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

Certificate Number: **Sira 03ATEX3556** Issue: **3**

Equipment: **VL114S & VL114E Luminaires**

Applicant: **Victor Lighting**

Address: 388 Hillington Road
Glasgow
G52 4BL
UK

This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 50014:1997 (A1 and A2) EN 50019:2000 EN 50028:1987 EN 50281-1-1:1998

If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

The marking of the equipment shall include the following:



II 2 G D

VL114S, 2 x 18 W and 1 x 18 W:

EEx em II T4: (Ta = -45°C to +30°C)

EEx em II T3: (Ta = -45°C to +40°C)

VL114E, 1 x 11 W and 1 x 9 W:

EEx em II T6: (Ta = -15°C to +25°C)

EEx em II T5: (Ta = -15°C to +40°C)

EEx em II T4: (Ta = -15°C to +60°C)

Project Number 51A19205
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C Ellaby
Certification Officer

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DESCRIPTION OF EQUIPMENT

The VL114 Bulkhead Luminaire consists of two versions; The VL114S Standard bulkhead luminaire and the VL114E emergency bulkhead luminaire. The luminaires utilise single or twin VL137 insulated fluorescent lamps with rated outputs of 2 x 18 W or 1 x 18 W for the VL114S version and 1 x 11 W for the VL114E version. The electrical supply for the VL114S luminaire may be 220 to 277 V, 50 or 60 Hz a.c. and 220 to 254V, 50 or 60 Hz a.c for the VL114E luminaire.

The VL114E luminaire only operates the lamp for a limited period when the mains power to the luminaire fails. The lamp does not illuminate when mains powered.

The luminaires comprise a rectangular enclosure with two parts, a main body and a clear diffuser, both manufactured from polycarbonate. The control gear is located in the bottom of the main enclosure, separated from the lamp(s) by means of the reflector plate.

The luminaires have two cable entry positions situated on the main body, which are suitable for looping supply cables through cable glands up to size M25.

The emergency version (VL114E) is fitted with component certified inverter, battery pack, encapsulated fuse and an 11 W compact fluorescent lamp. The emergency lid assembly has an IP20 rating when removed from the luminaire.

Luminaires may be looped together subject to the maximum current permitted by the terminals.

The luminaires have an ingress protection rating of IP67 and IP68.

Variation 1 - This variation introduced the following changes:

- i. An alternative ballast, the VL136 covered by Sira 04ATEX5203U and coded EEx m II, was accepted for use with the VL114E luminaires, this ballast may be used with a single 11 W lamp on a 220 V to 254 V ac supply, the following marking applies:


EEx em II T3: (Ta = -15°C to +40°C)

Variation 2 - This variation introduced the following changes:

- i. It was recorded that VL 114 Luminaires that use the VL138 Ballast covered by Sira 03ATEX7207U may also be rated for a supply of 110 V to 230 V or 110 V to 127 V AC or DC.

Variation 3 - This variation introduced the following changes:

- i. The addition of a certified, 9 W compact lamp option for use in the VL114E Bulkhead Emergency Luminaire, maintained and non maintained. This Luminaire incorporates existing certified components and the new lamp is covered by certification already listed in condition of certification clause 17.4, for clarity, its details are recorded below.

Product	Certificate number	Code
VL137 Insulated Lamp Assemblies (Rated up to 250 V, 200 W maximum)	Sira 03ATEX3208U	 II 2G EEx e II

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14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report No.	Comment
0	05 December 2003	R53A10710A	The release of the prime certificate.
1	15 July 2004	R53A11784A	The introduction of Variation 1.
2	9 February 2007	N/A	The introduction of Variation 2.
3	16 December 2008	R51A19205A	This Issue covers the following changes: <ul style="list-style-type: none">• All previously issued certification was rationalised into a single certificate, Issue 3, Issues 0 to 2 referenced above are only intended to reflect the history of the previous certification and have not been issued as documents in this format.• The change of the Applicant's name, first recognised 9 August 2005 and modified 23 January 2006, was re-confirmed.• The introduction of Variation 3.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

None

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.



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17 CONDITIONS OF CERTIFICATION

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.
- 17.3 The manufacturer shall carry out an electric strength test, on all units manufactured, in accordance with EN 50019:2000 clause 7.1.
- 17.4 This certificate relies on the following previously certified products. When used as part of the Luminaires, their original certificates shall still maintain the key attributes listed in the table below.

Product	Certificate number	Key attributes
VL138 Electronic ballast	Sira 03ATEX7207U	EEx m II
VL136 Electronic ballast	Sira 04ATEX5203U	EEx m II
VL109 Electronic inverter	Sira 00ATEX5214U	EEx m II
VL140 fuse assembly	Sira 03ATEX5210U	EEx m II
VL137 insulated lamp	Sira 03ATEX3208U	EEx e II
VL139 battery assembly	Sira 03ATEX3209U	EEx e II
Wago 262 terminals	PTB98ATEX3125U	EEx e II
Wago 264 terminals	PTB98ATEX3129U	EEx e II
Weidmuller MK6/6 terminals	BAS99ATEX2123U or Sira 01ATEX3294U	EEx e II
Weidmuller MK3/6 terminals	BAS99ATEX2124U or SIRA01ATEX3248U	EEx e II
Weidmuller MK6/6 terminals	BAS99ATEX2123U or SIRA01ATEX3294U	EEx e II

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Certificate Annexe

Certificate Number: Sira 03ATEX3556
Equipment: VL114S & VL114E
Applicant: Victor Lighting



Issue 0

Drawing No.	Sheet	Rev.	Date	Description
LA378	1 to 1	1	19 Aug 03	VL114S and VL114E luminaire

Issue 1

Drawing No.	Sheet	Rev	Date	Description
LA393	1 of 1	0	07 Jul 04	VL114 Luminaire 11 W variants

Issue 2 No new drawings were introduced

Issue 3

Drawing No.	Sheet	Rev.	Date	Description
LA378	1 of 1	02	28 Nov 08	Type VL114 Increased Safety Bulkhead Luminaire
LA393	1 of 1	01	28 Nov 08	Type VL114 Increased Safety Bulkhead Luminaire 9W & 11W Variants

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